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List of Publications on Indian Entomology, 1926.

(Received for publication on 9th April 1927)

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- Abbott, C. E.**—Methods of Orientation in Dragonfly Larvæ. (*Psyche* XXXIII 124-126; Oct. 1926.)
- Abbott, W. S.**—Determining the effectiveness of dormant treatments against the San José Scale. (*Jl. Ec. Ent.* XIX 858-860; Dec. 1926.)
- Abney, L.**—The Occipital Suture and its relation to a protocular Sclerite. (*Ann. Ent. Soc. America* XIX 286-289, t. 23; Sept. 1926.)
- Adkin, R.**—Melanism in Lepidoptera. (*Proc. South Lond. Ent. Nat. His. Soc.*, 1925-26, 7-21; 1926.) [Theories and examples.]
- Adler, S., and Theodor, O.**—
The Mouth Parts, Alimentary Tract, and Salivary Apparatus of the Female in *Phlebotomus papatasi*. (*Ann. Trop. Med. and Parasit.*, XX, 3 t.f., tt. viii-xiv: Feb. 1926.)
Further Observations on the Transmission of Cutaneous Leishmaniasis to Man from *Phlebotomus papatasi*. (*Ann. Trop. Med. and Parasit.*, XX, 175-194, tt. xvi-xvii: June 1926.)
- Afzal Husain, M. and Abdullah Shah, S.**—The Red Pumpkin Beetle, *Aulacophora abdominalis*, Fb. and its control; with a short note on *A. atripennis*, Fb. (*Ind. Agric. Dept. Ent. Mem* IX, 31-57; Feb. 1926.)
- Afzal Husain, M.**—Report of the Imperial Entomologist for year ended 30 June 1926. (*Sci. Repts. Pusa Inst.*, pp. 70-82: 1926.)
- Aldrich, J. M.**—
On the Status of the generic name *Anthrax*, Scopoli (*Insec. Inscit. Menstr.* XIV 12-14; Mar. 1926.) [*Anthrax*, Scop. 1763, genotype *anthrax*, Schrank 1781 (= *morio*, Scop. 1763, ncc Linn 1758)]

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is prior name of *Argyromaba*, Schiner 1860, as previously pointed out by Bezzi.]

What is *Oestrus nasalis*, Linnaeus? (*Insec. Inscit. Menstr.* XIV 15-16; Mar. 1926.)

A new genus of Helcomyzidæ from Chile, with key to genera. (*Insec. Inscit. Menstr.* XIV 96-102; May 1926.) [Key to genera of Helcomyzidæ, with genotypes, pp. 99-102.]

Descriptions of new and little-known Diptera. (*Proc. U. S. Nat. Mus.* LXIX, Art. 22, No. 2648: 1926.) [Trypetidæ: *Pelmatops ichneumonæa*, Westw., pp. 3-5, redescr., Chengtu (Szechuen). Anthomyiadæ: *Mesembrina tristis*, n. sp., p. 7, Songpan (12000-18000 ft.), Tatsienlu (13000-14500 ft.). Sarcophagidæ: *Wohlfahrtia atra*, n. sp., pp. 10-11, Songpan (Szechuen). Tachinidæ: *Peteina hypodiscalis*, n. sp., pp. 19-20, Tatsienlu; *Simoma*, n. g., pp. 20-21, type *grahami*, n. sp., pp. 21-22, Suifu; *Eucomus*, n. g., p. 22, type *strictus*, n. sp., pp. 22-23, Songpan.]

Alexander, W. B.—Natural Enemies of Prickly Pear and their Introduction into Australia. (*Austral. Commonw. Inst. Sci. Ind.* Bull. 29; pp. 80, tabs. 13; Melbourne, 1925.)

Alfaro, J.—A new Method of Fighting the Propagation of Mosaic Disease in sugar Cane. (*Proc. Agric. Soc. Trinidad and Tobago*, XXV, 437-439; 1925.)

Alfken, J. D.—Ueber einige Bienen aus Mesopotamien und Ostindien (Hym.) (*Ent. Mitteil.*, XV, 315-320; July 1926.)

Alwis, E. de.—The small Tussock Moth (*Notolophus posticus*, Wek.), a pest on Dadap (*Erythrina lithosperma*, Bl.) (*Ceylon Dept. Agric. Yearbook* 1926, pp. 19-21, t. 10; 1926.)

Andrews, H. E.—

On a Collection of Carabidæ from the Kumaon-Tibetan Frontier. (*Ent. Month. Mag.*, LXII, 65-80, map; Mar. 1926.)

[*Notiophilus radians*, n. sp., Gori Valley, 7,000 ft., p. 70; *Carabus vagaw*, Fairm., redesc., Matoli, Girthi Valley, 14,500 ft., p. 71; *Coryza semirubra*, n. sp., Sarju Valley, 5,000 ft., also known from Ranikhet, Almora, and other places, p. 71-72; *Bembidium persephone*, n. sp., Shelshel, 15,750 ft., p. 72-73; *Bembidium eurydice*, n. sp., Gori River Gorge, 5-9,000 ft., p. 73-74; *Bem-*

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bidium charon, n. sp., Gori River Gorge, 5-9,000 ft., Burphu (Gori Valley), 11,500 ft., p. 74; *Trichotichnus liparus*, n. sp., Gori River Gorge, 5-9,000 ft., also from West Almora division, Nainital division, 7-8,600 ft., and Sunderdhunga Valley, 8-12,000 ft., p. 74-75; *Amara* (*Niphobles*) *splendens*, n. sp., Gori Valley: Milam and Burphu, 11,500 ft.: Girthi Valley, 14,000; Shelshei, 15,750 ft., also from Yangti Valley, 14,400 ft., p. 75-76; *Amara* (*Cumeres*) *thalia*, n. sp., Supi River, Tibet, 15,000 ft., Milam. Gori Valley, 11,500 ft., p. 76; *Pterostichus* (*Steropus*) *championi*, n. sp., Gori Valley, 7,000 ft., also from Sunderdhunga Valley, Pindar Valley and Garhwal, Painsur, above Lobha, p. 76-77; *Calathus atrema*, n. sp., Gori River Gorge, 5-9,000 ft.; Gori Valley: Burphu, 11,500 ft.; Pindar Valley, 8-11,000 ft.; Sunderdhunga Valley, 8-12,000 ft., p. 77-78; *Anchomenus viridicans*, n. sp., Gori Valley, 7,000 ft., p. 78-79; *Cymindis alticola*, n. sp. Laptol, 15,000 ft.; Shelshei, 15,750 ft.; Tibet, Supi River, 15,000, p. 79.]

Papers on Oriental Carabidae. XVI. (*Ann. Mag. Nat. Hist.* (9th s.), XVII, 252-259; Feb. 1926.) [*Calathomimus vittatus*, n. sp., Ceylon: Woodside, Urugalla, p. 254-255; *Colpodes schosus*, n. sp., Ceylon: Pidurutalagalla, p. 257-258.]

Papers on Oriental Carabidae. XVII. (*Ann. Mag. Nat. Hist.* (9th s.), XVII, 371-381; April 1926) [General discussion about some genera and spp. *Dyschirius singhalensis*, n. sp., Kandy, p. 380.

Papers on Oriental Carabidae. XVIII. (*Ann. Mag. Nat. Hist.* (9th s.), XVIII, 273-290; Sept. 1926). [*Trichotichnus javanus*, n. sp., Malabar (?), Java, Burn, p. 278; *Lachnoderma tricolor*, n. sp., Pasa, Singapore, p. 289-290.]

[Anonymous]

Reports of the External Parasites in Sheep. Committee of the Departmental Research Council.

No. 1. Tests of certain Swabbing Dressing for Prevention and Treatment of Sheep Blow-fly Attacks. (*Agric. Gaz. N.S.W.* XXXVII, 37-44; Jan. 1926.)

Anstead, R. D.—Report on the Operations of the Department of Agriculture, Madras Presidency, for the year 1925-26. (Madras Govt. Press: 1926; pp. 79+4) [Entomology, pp. 33-34; Application of the Pest Act to Cambodia Cotton, pp. 40-42, and to the Coconut Caterpillar, pp. 43-44; *Spodoptera* [*mauritica*], p. 44;

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Entomological Publications. pp. 69-70; programme of work p. 77.]

Arthur, J. M. and Harrison, T. H.—Calcium Cyanide Dust for Fumigation of Citrus. Experiments to determine Dosage. (*Agric. Gaz. N. S. W.*, XXXVII, 245-248; Mar. 1926.)

Atkinson, D. J.—Some Types of Teak Defoliation. (*Ind. Forester*, LII, 141-145, 2 tt., April 1926.)

Aurivillius, C.—Nene oder wenig bekannte Coleoptera Longicornia. (*Archiv f. Zoologi* XVIII, Hefte 2, No. 9, pp. 1-22, figs. .; June 1926.) [Lamiadæ: *Hippocephala lineolata*, n. sp., p. 12, Khandkhiya (Sylhet); *Stibara apicalis*, n. sp., p. 21. Momeit (Burma).]

Austen, E. E.—On the genus *Crataerina*, Olf., and its allies (Diptera Pnpipara—Family Hippoboscidae), with descriptions of new species. (*Parasitology* XVIII 350-360, fig., tab. 16; Sept. 1926.) [Key to genera, p. 350: *Stenopteryx*, Leach, p. 351, remarks; *S. hirundinis*, Linn., p. 351. Europe, Thandiani; *Crataerina*, Olf., pp. 351-353, remarks, key to spp.: *C. obtusipennis*, n. sp., pp. 356-357, Mongolia, Malacca; *C. longipennis*, n. sp., p. 357, Gokteik. (N. Shan States); *Myophthiria*, Rond, pp. 359-360, remarks; *M. sp.*, p. 360, Pundaluoya.]

B .

Back, E. A., and Cotton, R. T.—Biology of the Saw-toothed Grain Beetle, *Oryzaephilus surinamensis*, Linn. (*Jl. Agric. Res.* XXXIII 435-452, ff. 1-4; Sept. 1926.)

Bagnall, R. S.—

Brief Descriptions of new Thysanoptera. XV. (*Ann. Mag. Nat. Hist.*, (9th s.), XVIII, 98-114; July 1926.) [*Brachyurothrips indicus*, n. sp., Calcutta, p. 98-99; *Physothrips immisi*, n. sp., near Bhowali (Kumaon), p. 106-107; *Thrips immisi*, n. sp., Dehra Dun, near Bhowali (Kumaon), p. 110; *Thrips melanurus*, n. sp., Darjiling, p. 11-112;]

Bagnall, R. S.—*contd.*

Brief Descriptions of new Thysanoptera. XVI. (*Ann. Mag. Nat. Hist.* (9) XVIII 545-560; Novem. 1926.) [*Haplothrips gowdeyi*, Franklin, p. 548, Fiji, Brazil. *Almora*, Calcutta. *soror*, Schm., and *mahensis*, Bagn., are Synou.; *Trichaplothrips brevicaps*, n.sp., p. 550, Peradeniya, carnivorous on *Archipsocus*; *Liotrips nigricornis*, Bagnall, p. 552. Papua, Seychelles, and apparently also this sp. from Ceylon: *Bactridothrips*. Karny, pp. 557-558. Key to spp. .]

Baillon, P. Cappe de.—Variation et Parthénogenèse. Note Sur la Biologie de quelques Phasmitides. (*Bull. Biol. Fr. Belg.* LX 474-482, 2 Figs.; Dec. 1926) [*Carausius morosus*.]

Ballou, H. A.—The Coffee Berry Borer. (*Planter's Chron.*, XXI, 187-189; Mar. 1926.) [From 'Tropical Agriculture.']

Barber, G. W.—Some Factors Responsible for the Decrease of the European Corn Borer in New England during 1923 and 1924 (*Ecology*, VII, 143-162; April 1926.)

Barraud, P. J.—Report upon a Sandfly Survey of Madras Town. (*Ind. Med. Res. Memoirs*, No. 4, 207-218, maps; Feb. 1926.)

Basil-Edwards, S.—On the occurrence of the Giant Water-Bug (*Belostomatidae indicum*) in Simla. (*Jl. Bombay N. H. Soc.*, XXXI, 229; May 1926.)

Bedowski, R., and Krainiska, M. K.—Die Entwicklung von *Bauclhus femoralis* Thoms. (Hymn., Ichneumonidae). (*Bibliotheca Universitatis Libere Polonae*, Fasc. XVI, 1-50, tt. i-VIII; 1926.) [detailed study of embryology etc.]

Beeson, C. F. C.—On Some Indian Cleridæ (Coleoptera) Pt. II. Notes on the Biology of the Cleridæ. (*Ind. For. Rec.* XII, 217-231; 1926.)

Bell, T. R.—

The common Butterflies of the Plains of India. Part XXXVI. (*Bombay N. H. S. Jl.* XXXI 323-351; Aug. 1926.)

The common Butterflies of the Plains of India. Part XXXVII. (*Bombay N. H. Soc. Jl.* XXXI 655-686; Dec. 1926.)

Benick, L.—Neue Megalopsidiinen und Steninen, vorwiegend aus dem Zoologischen Museum in Hamburg. (Col.) (*Ent. Mitteil.*, XV, 262-279; July 1926.) [*Stenus languor* n. sp., Chakrata Distr., Kanasar 7030 ft. p. 275-276; *Stenus callifrons*, n. sp., Kaligad, Dehra Dun. p. 276-277; *Stenus grandiculus*, n. sp., Burma, p. 277-278.]

Berland, L.—

Les Sphegidæ (Hyménoptères) du Muséum National de Paris. 3e Note. (*Bull. Mus. Nat. d' Hist. Nat. Paris* 1926, pp. 282-285; 1926) [*Sphex* (*Isodontia*) *abditus*, Kohl, p. 283, Sikkim.]

Les Sphegidæ (Hyménoptères) du Muséum National de Paris. (2c Note) (*Bull. Mus. Nat. d' Hist. Nat. Paris* 1926, pp. 200-206; June 1926). [*Sphex* (*Haripactopus*) *egyptius*, Lepel., p. 200, Africa. Arabia, Bengal, Karachi.]

Bernhauer, M.—

Zur indo-malayischen Staphylinidenfauna [Col.] (*Ent. Mitteil.* v, 122-136; March 1926.) [*Stenus kempfi*, n. sp., Jannakmukh, p. 131-132.]

Neue Staphyliniden aus Ostindien. (*Wien. Ent. Zeit.*, XLIII. 19-25; June 1926). [*Eleusis nova*, n. sp., North-east India: Kobo, p. 19; *Priochirus* (*Stigmatochirus*) *aboi*, n. sp., North-east India: Kobo; Upper Renging, 2,150 ft., p. 19; *Lispinus kempfi*, n. sp., North-east India: Rotung, 1,400 ft., *Lispinus amherstianus*, n. sp., Lower Burma: Kawkaeik (Amherst Distr.), p. 20-21; *Ancypophorus* (*Misancyrus*) *championi*, n. sp., West Almora: Kumaon (Ranikhet), p. 21; *Trogophlax* (*Carpalimus*) *gravelyi*, n. sp., Brit-India: Bank of Dihong below Pasighat, p. 21; *Trogophlax* (*Carpalimus*) *vulneratus*, n. sp., West-Almora: Kumaon, p. 22; *Oxytelus cavicola*, n. sp., Burma: near Moulmein, in a dark cave, p. 22-23; *Oxytelus indicus*, n. sp., Kumaon (Haldwani Dist.); Sarda (Bengal), p. 23; *Bledius championi*, n. sp., Kumaon, p. 23-24; *Osorius callifrons*, n. sp., Brit-India: Rotung, 1400 p. 24; *Osorius kempfi*, n. sp., East India: Upper Renging, 2150 ft., p. 24; *Osorius parvopennis*, n. sp., East-India: Kobo, 400 ft., p. 25; *Dianous purpureo-maculatus*, n. sp., East-India: Kobo, p. 25].

Bernhauer, M., and Scheerpeltz, O.—Junk's Coleopterorum Catalogus, Part 82. Staphylinidæ VI. pp. 497-988: Berlin 4, May 1926,

- Bezzi, M.**—New species of *Rhabdochæta* (Diptera, Trypanecidæ). (*Sporilia Zeylanica*, XIII, 309-314, t. xvii; March 1926.) [Key to Oriental spp. p. 309-310; *Rhabdochæta seniorwhitei*, n. sp., *Matale*, p. 313-314, fig.3].
- Bird, R. D.**—The external anatomy of the adult of *Hoplocamptus halcyon*, Nort. (Hymenoptera, Tenthredinoidea). (*Ann. Ent. Soc. America* XIX 268-279, tt. 20-21; Sept. 1926.)
- Blair, K. G.**—On the Luminosity of *Pyrophorus* (Coleoptera). (*Ent. Month. Mag.*, LXII, 11-15; Jan. 1926.)
- Blake E. G.**—The Protection of Buildings against Vermin, with a comprehensive Description of the most effective Methods that can be adopted for the Extermination of Rats, Mice and various Insects. (85 pp. ; Crosby Lockwood & Son; London, 1926.)
- Blocklock, D. B.**—The Development of *Onchocera volvulus* in *Simulium damnosum*. (*Ann. Trop. Med. & Parasit.*, XX, 1-48, 9 t.f., tt. -IV; Feb. 1926.)
- Blöte, H. C.**—Overzicht der Nederlandsche Psylliden-soorten. (*Tijd. v. Ent.*, LXIX, 57-84; April 1926.) [Keys to sub-fams., gen., spp.].
- Blüthgen, P.**—Beiträge zur Kenntnis der indo-malayischen *Halictus*- und *Thrinchostoma*-Arten. (Hym. Apidæ. Halictini.) (*Zool. Jahr.*, LI, 375-698, figs. ; 1926.) [Many n. spp. from India and many redescribed.]
- Bodenheimer, F. S.**—Über die Voraussage der Generationenzahl von Insekten. III. Die Bedeutung des Klimas für die landwirtschaftliche Entomologie. (*Zeit. angew. Ent.* XII 91-122; May 1926.) [Important paper.]
- Bodine, J. H.**—Hydrogen Ion Concentration in the Blood of certain Insects (Orthoptera). (*Biol. Bull. Woods Hole* LI 263-369; Nov. 1926.)
- Borel, M.**—
 Au sujet de l'action empêchante de la couleur blanche sur la ponte des moustiques, dans les jarres indigènes blanchies à la chaux. (*Bull. Soc. Path. Exotique* XIX 702; Oct. 1926.)

Borel, M.—*contd.*

Note sur les gîtes de *Neocellha maculata* en Cochinchina et dans le Sud-Annam. (*Bull. Soc. Path. Exotique* XIX 703-704; Oct. 1926.)

Borodin, D. N.—Practice of Estimating losses caused by Insect Pests to the small grains in Russia. (*Jl. Eco. Ent.* XIX, 227-235; April 1926.)

Böving, A. G.—The immature stages of *Psephenoides gahani*. Champion (Col.; Dryopidae). (*Trans. Ent. Soc. London* LXXIV 381-388, tt. 89-90; Dec. 1926.) [From material collected at Haldwani.]

Boyd, M. F.—A Note on the rearing of Anopheline Larvæ. (*Bull. Ent. Res.* XVI, 308; Mar. 1926.)

Breitenbach, W.—Ueber das Diaphanol als Hilfsmittel bei lepidopterologischen Forschungen. (*Zeit. wiss. Ins.*, XXI, 58; Mar. 1926.)

Breitenbecher, J. K.—Variation and Heredity in *Bruchus quadri maculatus*, Fabi. (Coleoptera) (*Canad. Ent.*, LVIII, 131-135; June 1926.)

Brereton, W. le Gay.—White Ants in Fruit Trees. (*Agric. Gaz. N. S. W.*, XXXVII, 617; Aug. 1926.) [Control by placing round the tree pieces of soft wood with holes filled with arsenic and plugged.]

Brittain, W. H.—

Calcium Cyanide and its Utilization in the Control of Mound-building Termites or White Ants. (*Bengal Agric. Jl.* V, 82-87.)

The Utilization of Calcium Cyanide in the control of Insect and Rodent Pests in India. (*Planter's Chron.*, XXI, 538-544; Aug. 1926.)

Brittain, W. H., and Shaw, W. S.—Preliminary Report on the Application of Calcium Cyanide Dust to the Control of *Helopeltis* in Tea. (*Planters' Chron.*, XXI, 527-531; Aug. 1926.)

Bromley, S. W.—The external anatomy of the Black Horse-fly, *Tabanus atratus*, Fabi. (Diptera: Tabanidae.) (*Ann. Ent. Soc. Amer.* XIX 440-460, 12 figs.; Dec. 1926.)

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(Fauna III 135 f. 58) to *quorula* are really *rugipennis*, Wlk.;
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The Feeding of Larvæ of *Phlebotomus argentipes*, Annandale and Brunetti, on Cultures of *Leishmania donovani*, pp. 155-156.

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and having found one slits open the pupal skin on the back of the thorax and thrusts his abdomen inside and effects copulation before the female emerges. Process described.]

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